

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: K. Yamauchi et al. : Art Unit:
Serial No.: To Be Assigned : Examiner:
Filed: Herewith :
FOR: SPECIAL REPRODUCTION DATA :
GENERATING DEVICE, MEDIUM, AND :
INFORMATION AGGREGATE :

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

SIR:

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 8, line 19, with the following:

One aspect of the present invention is a special reproduction data generating device, comprising:

Please replace the paragraph beginning at page 9, line 6, with the following:

Another aspect of the present invention is the special reproduction data generating device wherein the special reproduction data generating means

adds Presentation Time Stamp (PTS), which is used for special reproduction, to the selected transport packet, and corrects a mismatching MPEG format so as to generate the special reproduction data.

Please replace the paragraph beginning at page 9, line 13, with the following:

Still another aspect of the present invention is the special reproduction data generating device wherein the special reproduction data generating means also adds Decoding Time Stamp (DTS) to the selected transport packet.

Please replace the paragraph beginning at page 9, line 18, with the following:

Yet another aspect of the present invention is the special reproduction data generating device wherein said special reproduction data generating means sets a Broken_link bit for the selected transport packet.

Please replace the paragraph beginning at page 9, line 22, with the following:

Still yet another aspect of the present invention is the special reproduction data generating device wherein the correction of the mismatching MPEG format means that if the selected transport packet includes data unnecessary or useless for special reproduction, the data is defined as a padding byte and made dummy data.

Please replace the paragraph beginning at page 10, line 4, with the following:

A further aspect of the present invention is the special reproduction data generating device wherein the unnecessary or useless data is at least one of

data of a frame other than the predetermined kind of frame, and DIT, PCR, PSI, DSM flag, PTS, DTS, and data of an AC coefficient of a macro block that are added to the inputted MPEG transport stream.

Please replace the paragraph beginning at page 10, line 11, with the following:

A still further aspect of the present invention is the special reproduction data generating device wherein the correction of the mismatching MPEG format means that in the case where the data necessary for special reproduction is not added to the selected transport packet, another transport packet is inserted before or after the selected transport packet, and the necessary data is stored in the selected transport packet or the additionally inserted transport packet, and

Please replace the paragraph beginning at page 10, line 24, with the following:

A yet further aspect of the present invention is the special reproduction data generating device wherein the correction of the mismatching MPEG format means that if the data necessary for special reproduction is added to the selected transport packet but a value thereof is incompatible, the value is corrected.

Please replace the paragraph beginning at page 11, line 5, with the following:

A still yet further aspect of the present invention is the special reproduction data generating device wherein the necessary data is at least one of PCR, PSI, a DSM flag, PTS, DTS, a sequence header code, a sequence end code, a GOP header, a Broken_link bit that are provide for the special reproduction.

Please replace the paragraph beginning at page 11, line 11, with the following:

An additional aspect of the present invention is the special reproduction data generating device wherein the predetermined frame is an I picture.

Please replace the paragraph beginning at page 11, line 15, with the following:

A still additional aspect of the present invention is the special reproduction data generating device wherein the predetermined frame is at least one picture selected from an I picture, a P picture, and a B picture.

Please replace the paragraph beginning at page 11, line 20, with the following:

A yet additional aspect of the present invention is a medium storing a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device the medium being processible by a computer.

Please replace the paragraph beginning at page 12, line 1, with the following:

A still yet additional aspect of the present invention is an information aggregate comprising a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device.

Please replace the paragraph beginning at page 12, line 6, with the following:

A supplementary aspect of the present invention is a transmitting medium for transmitting an MPEG transport stream generated in the special reproduction data generating device according to any one of 1st to 11th inventions.

Please replace the paragraph beginning at page 12, line 10, with the following:

A still supplementary aspect of the present invention is a recording medium for recording an MPEG transport stream generated in the special reproduction data generating device.

CLAIMS:

Please replace claim 5 with the following amended claim:

5. (Once Amended) The special reproduction data generating device according to any one of claims 2or 3, wherein the correction of the mismatching MPEG format means that if the selected transport packet includes data unnecessary or useless for special reproduction, the data is defined as a padding byte and made dummy data.

Please replace claim 7 with the following amended claim:

7. (Once Amended) The special reproduction data generating device according to any one of claims 2or 3, wherein the correction of the mismatching MPEG format means that in the case where the data necessary for

special reproduction is not added to the selected transport packet, another transport packet is inserted before or after the selected transport packet, and the necessary data is stored in the selected transport packet or the additionally inserted transport packet, and

if the necessary data is stored in the selected transport packet, the additionally inserted transport packet stores data which cannot be stored in the selected transport packet since the selected transport packet stores the necessary data.

Please replace claim 8 with the following amended claim:

8. (Once Amended) The special reproduction data generating device according to any one of claims 2 or 3, wherein the correction of the mismatching MPEG format means that if the data necessary for special reproduction is added to the selected transport packet but a value thereof is incompatible, the value is corrected.

Please replace claim 9 with the following amended claim:

9. (Once Amended) The special reproduction data generating device according to claim 7, wherein the necessary data is at least one of PCR, PSI, a DSM flag, PTS, DTS, a sequence header code, a sequence end code, a GOP header, a Broken_link bit that are provide for the special reproduction.

Please replace claim 10 with the following amended claim:

10. (Once Amended) The special reproduction data generating device according to any one of claims 1 to 3, wherein the predetermined frame is an I picture.

Please replace claim 11 with the following amended claim:

11. (Once Amended) The special reproduction data generating device according to any one of claims 1 to 3, wherein the predetermined frame is at least one picture selected from an I picture, a P picture, and a B picture.

Please replace claim 12 with the following amended claim:

12. (Once Amended) A medium storing a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device according to any one of claims 1 to 3, the medium being processible by a computer.

Please replace claim 13 with the following amended claim:

13. (Once Amended) An information aggregate comprising a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device according to any one of claims 1 to 3.

Please replace claim 14 with the following amended claim:

14. (Once Amended) A transmitting medium for transmitting an MPEG transport stream generated in the special reproduction data generating device according to any one of claims 1 to 3.

Please replace claim 15 with the following amended claim:

15. (Once Amended) A recording medium for recording an MPEG transport stream generated in the special reproduction data generating device according to any one of claims 1 to 3.

Respectfully Submitted,


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Kathleen Libby

VERSION WITH MARKINGS TO SHOW CHANGES MADE

SPECIFICATION:

Specification at page 8, line 19:

~~The 1st invention~~ One aspect of the present invention is a special reproduction data generating device, comprising:

Specification at page 9, line 6:

~~The 2nd invention~~ Another aspect of the present invention is the special reproduction data generating device ~~according to 1st invention~~, wherein the special reproduction data generating means adds Presentation Time Stamp (PTS), which is used for special reproduction, to the selected transport packet, and corrects a mismatching MPEG format so as to generate the special reproduction data.

Specification at page 9, line 13:

~~The 3rd invention~~ Still another aspect of the present invention is the special reproduction data generating device ~~according to 2nd invention~~, wherein the special reproduction data generating means also adds Decoding Time Stamp (DTS) to the selected transport packet.

Specification at page 9, line 18:

~~The 4th invention~~ Yet another aspect of the present invention is the special reproduction data generating device ~~according to 2nd or 3rd inventions~~, wherein said special reproduction data generating means sets a Broken_link bit for the selected transport packet.

Specification at page 9, line 22:

~~The 5th invention~~ Still yet another aspect of the present invention is the special reproduction data generating device ~~according to any one of 2nd to 4th~~

~~inventions~~, wherein the correction of the mismatching MPEG format means that if the selected transport packet includes data unnecessary or useless for special reproduction, the data is defined as a padding byte and made dummy data.

Specification at page 10, line 4:

~~The 6th invention~~ A further aspect of the present invention is the special reproduction data generating device ~~according to 5th invention~~, wherein the unnecessary or useless data is at least one of data of a frame other than the predetermined kind of frame, and DIT, PCR, PSI, DSM flag, PTS, DTS, and data of an AC coefficient of a macro block that are added to the inputted MPEG transport stream.

Specification at page 10, line 11:

~~The 7th invention~~ A still further aspect of the present invention is the special reproduction data generating device ~~according to any one of 2nd to 6th inventions~~, wherein the correction of the mismatching MPEG format means that in the case where the data necessary for special reproduction is not added to the selected transport packet, another transport packet is inserted before or after the selected transport packet, and the necessary data is stored in the selected transport packet or the additionally inserted transport packet, and

Specification at page 10, line 24:

~~The 8th invention~~ A yet further aspect of the present invention is the special reproduction data generating device ~~according to any one of 2nd to 7th inventions~~, wherein the correction of the mismatching MPEG format means that if the data necessary for special reproduction is added to the selected transport packet but a value thereof is incompatible, the value is corrected.

Specification at page 11, line 5:

~~The 9th invention~~ A still yet further aspect of the present invention is the special reproduction data generating device ~~according to 7th or 8th inventions~~,

wherein the necessary data is at least one of PCR, PSI, a DSM flag, PTS, DTS, a sequence header code, a sequence end code, a GOP header, a Broken_link bit that are provide for the special reproduction.

Specification at page 11, line 11:

The 10th invention An additional aspect of the present invention is the special reproduction data generating device ~~according to any one of 1st to 9th inventions~~, wherein the predetermined frame is an I picture.

Specification at page 11, line 15:

The 11th invention A still additional aspect of the present invention is the special reproduction data generating device ~~according to any one of 1st to 9th inventions~~, wherein the predetermined frame is at least one picture selected from an I picture, a P picture, and a B picture.

Specification at page 11, line 20:

The 12th invention A yet additional aspect of the present invention is a medium storing a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device ~~according to any one of 1st to 11th inventions~~, the medium being processible by a computer.

Specification at page 12, line 1:

The 13th invention A still yet additional aspect of the present invention is an information aggregate comprising a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device ~~according to any one of 1st to 11th inventions~~.

Specification at page 12, line 6:

~~The 14th invention~~ A supplementary aspect of the present invention is a transmitting medium for transmitting an MPEG transport stream generated in the special reproduction data generating device according to any one of 1st to 11th inventions.

Specification at page 12, line 10:

~~The 15th invention~~ A still supplementary aspect of the present invention is a recording medium for recording an MPEG transport stream generated in the special reproduction data generating device ~~according to any one of 1st to 11th inventions~~.

CLAIMS:

5. (Once Amended) The special reproduction data generating device according to any one of claims ~~2 to 4 or 3~~, wherein the correction of the mismatching MPEG format means that if the selected transport packet includes data unnecessary or useless for special reproduction, the data is defined as a padding byte and made dummy data.

7. (Once Amended) The special reproduction data generating device according to any one of claims ~~2 to 6 or 3~~, wherein the correction of the mismatching MPEG format means that in the case where the data necessary for special reproduction is not added to the selected transport packet, another transport packet is inserted before or after the selected transport packet, and the necessary data is stored in the selected transport packet or the additionally inserted transport packet, and

if the necessary data is stored in the selected transport packet, the additionally inserted transport packet stores data which cannot be stored in the

selected transport packet since the selected transport packet stores the necessary data.

8. (Once Amended) The special reproduction data generating device according to any one of claims 2 to ~~7~~ or 3, wherein the correction of the mismatching MPEG format means that if the data necessary for special reproduction is added to the selected transport packet but a value thereof is incompatible, the value is corrected.

9. (Once Amended) The special reproduction data generating device according to claim 7 or 8, wherein the necessary data is at least one of PCR, PSI, a DSM flag, PTS, DTS, a sequence header code, a sequence end code, a GOP header, a Broken_link bit that are provide for the special reproduction.

10. (Once Amended) The special reproduction data generating device according to any one of claims 1 to ~~9~~ 3, wherein the predetermined frame is an I picture.

11. (Once Amended) The special reproduction data generating device according to any one of claims 1 to ~~9~~ 3, wherein the predetermined frame is at least one picture selected from an I picture, a P picture, and a B picture.

12. (Once Amended) A medium storing a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device according to any one of claims 1 to ~~11~~ 3, the medium being processible by a computer.

13. (Once Amended) An information aggregate comprising a program and/or data for allowing a computer to carry out all or some functions of all or some means of the special reproduction data generating device according to any one of claims 1 to ~~11~~ 3.

14. (Once Amended) A transmitting medium for transmitting an MPEG transport stream generated in the special reproduction data generating device according to any one of claims 1 to 113.

15. (Once Amended) A recording medium for recording an MPEG transport stream generated in the special reproduction data generating device according to any one of claims 1 to 113.